

(19) 日本国特許庁 (J P)

(12) 公開特許公報 (A)

(11) 特許出願公開番号

特開平6-23960

(43) 公開日 平成6年(1994)2月1日

(51) Int. Cl. ⁵

B41F 31/02

33/00

識別記号

C 7119-2C

S 7119-2C

F I

審査請求 未請求 請求項の数1 (全3頁)

(21) 出願番号 特願平4-215339

(22) 出願日 平成4年(1992)7月6日

(71) 出願人 000145194

株式会社篠原鉄工所

静岡県静岡市長沼596番地

(72) 発明者 岩本 正之

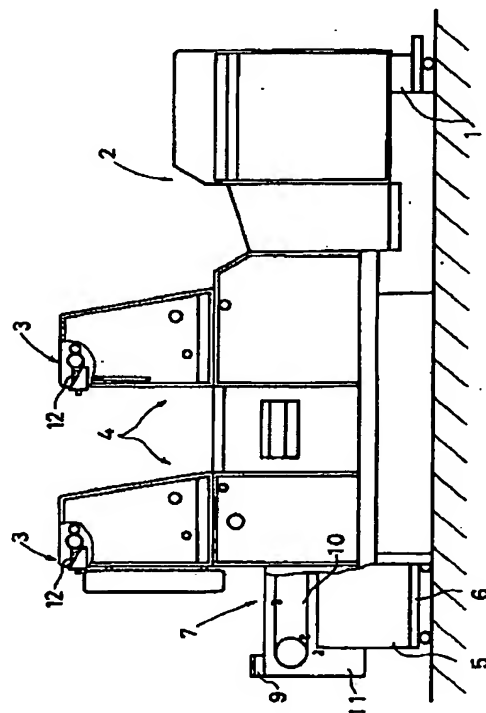
静岡県静岡市長沼596番地 株式会社篠原
鉄工所内

(54) 【発明の名称】 枚葉式印刷機

(57) 【要約】

【目的】 群管理される枚葉式印刷機のインキ供給量の最終的微調整を各個の印刷機において簡便に行えるようにする。

【構成】 群管理される枚葉式印刷機において、インキ供給量調整手段(9)を排紙部(7)に設けたことを特徴とする。



【特許請求の範囲】

【請求項 1】 群管理される枚葉式印刷機において、インキ供給量調整手段 (9) を排紙部 (7) に設けたことを特徴とするもの。

【発明の詳細な説明】

【0001】

【産業上の利用分野】 本発明は、群管理される枚葉式印刷機の制御に関する。

【0002】

【発明の背景】 枚葉式印刷機にあつては、用紙の見当、印刷圧力、紙寸に対応した機器の調整、そして、湿し水及びインキ供給量といった多数の管理項目が適切に制御されて始めて良好な印刷が行われる。従来にあつては、実開昭 60-38741 号公報及び特開昭 63-230342 号公報に示されるように、各個の印刷機に各々オペレーションスタンドが付設され、個別的に上記の管理項目を制御していた。しかしながら、近時に至つては、コンピュータ制御技術の発達及びオペレータの負担軽減の要請に基づき、多数の印刷機を 1 台のコンピュータによって一元的に統括制御する、いわゆる群管理方式が採られるようになった。

【0003】 このような印刷機の群管理は、前記したオペレータの負担軽減に大きく寄与するとともに、オペレーションスタンドが不要となるので工場スペースの節減にも大きな効果がある。

【0004】 ところで、上記した枚葉式印刷機の管理項目のうちインキ供給量の調整については、印刷品質を最も大きく、かつ、直接的に左右するものであり、また、インキ供給量は多数のインキ帯域に分割して設定されるものであるから、最終的な微調整を、各々の印刷機によって刷り出された試刷と見比べつつ行いたいという要請がある。

【0005】

【発明が解決しようとする課題】 本発明は、上記した問題に鑑みてなされ、進歩した枚葉式印刷機を提供するので、その目的は、群管理される枚葉式印刷機のインキ供給量の最終的な微調整を各個の印刷機において簡便に行えるようにすることにある。

【0006】

【課題を解決するための手段】 このために、本発明に係る枚葉式印刷機は、インキ供給量調整手段 (9) を排紙部 (7) に設けたことを特徴とする。

【0007】

【作用】 これにより、排紙部 (7) において取り出された試刷 (8) と見比べつつ、個々の印刷機において簡便に、インキ帯域毎のインキ供給量の最終的な微調整を行うことができる。

【0008】

【実施例】 以下、図面を参照して、本発明の実施例につき詳細に説明する。図 1 は、本発明に係る枚葉式印刷機

の一実施例を示す概略側面図、図 2 は、同平面図、図 3 は、インキ供給量調整手段を摘示した平面図である。

【0009】 図示された枚葉式印刷機は、大別して、用紙 (1) をストリーム状に給送する給紙部 (2)、インキ装置 (3) から送り出されたインキを用紙 (1) に印刷加圧する印刷ユニット (4)、そして、印刷済みの用紙 (5) を紙積台 (6) 上にパイルする排紙部 (7) から成る。

【0010】 本発明は、このような枚葉式印刷機が多数台印刷工場に配置され、群管理方式によって一元的に統括制御されることを前提としている。すなわち、多数台の枚葉式印刷機は、従来の如く個別的にオペレーションスタンドによって制御されるのではなく、前述した多数の管理項目が 1 台のコンピュータによって集中的に制御されるのである。

【0011】 しかしながら、多数の管理項目のうちインキ供給量の調整については、群管理のためのコンピュータによっていわば概略的に調整するだけでは不十分であり、分割された多数のインキ帯域毎に最終的な微調整を試刷 (8) と対応させて行う必要がある。

【0012】 そこで、本発明に係る枚葉式印刷機は、排紙部 (7) にインキ帯域毎のインキ供給量調整手段

(9) を設けている。排紙部 (7) には、もともとチェーングリッパ等の用紙搬送手段 (10) を格納するためのケーシング (11) が存在するので、ここにインキ供給量調整手段 (9) を載置すると便利である。また、排紙部 (7) において試刷 (8) が取り出されることは当然のことであるから、この試刷 (8) をケーシング (11) 上に拵けて、刷り上がり詳細に観察することができる。

【0013】 インキ供給量調整手段 (9) の構造そのものは、前記した従来技術のものと同様であり、インキ装置 (3) のインキブレード (12) が、分割された多数のインキ帯域毎にインキ供給量を調整するようになっているので、それに応じて、プッシュボタン (13)、

(14) でインキ供給量を増減させるとともに、供給量の表示 (15) が行われる。なお、インキ供給量調整手段 (9) と、群管理のためのコンピュータ (図示していない)、そしてステッピングモータ等のブレード駆動手段を有するインキ装置 (3) が電氣的に接続されることは、言うまでもない。

【0014】

【発明の効果】 本発明に係る枚葉式印刷機によれば、排紙部 (7) において取り出された試刷 (8) と見比べつつ、個々の印刷機において簡便に、インキ帯域毎のインキ供給量の最終的な微調整を行うことができるので、印刷品質の一層の向上と作業効率の著しい改善をもたらすことができる。

【図面の簡単な説明】

【図 1】 本発明に係る枚葉式印刷機の一実施例を示す概

3

4

略側面図である。

【図 2】 同平面図である。

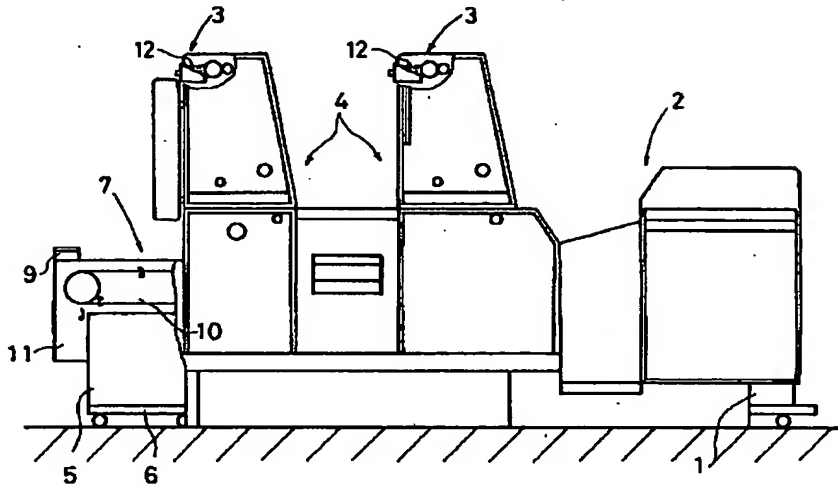
【図 3】 インキ供給量調整手段を摘示した平面図である。

【符号の説明】

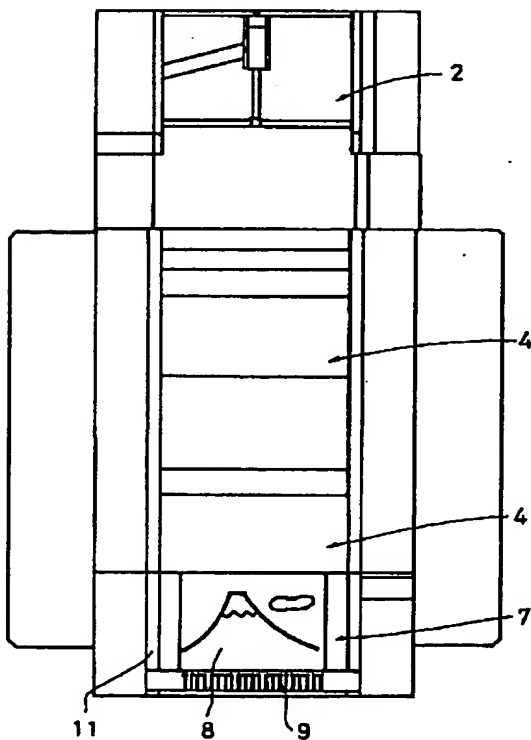
- 3 インキ装置
4 印刷ユニット
7 排紙部

- 8 試刷
9 インキ供給量調整手段
11 ケーシング
12 インキブレード
13 プッシュボタン
14 プッシュボタン
15 表示

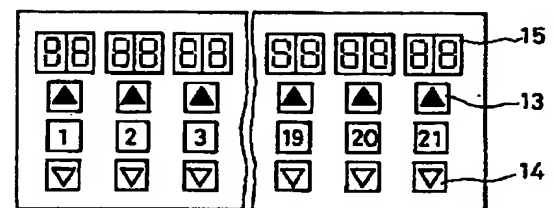
【図 1】



【図 2】



【図 3】



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-023960

(43)Date of publication of application : 01.02.1994

(51)Int.Cl.

B41F 31/02

B41F 33/00

(21)Application number : 04-215339

(71)Applicant : SHINOHARA TEKKOSHO:KK

(22)Date of filing : 06.07.1992

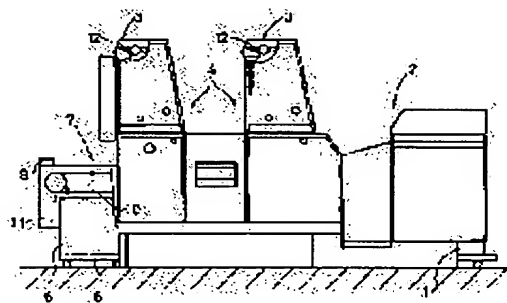
(72)Inventor : IWAMOTO MASAYUKI

(54) SHEET-FED PRESS

(57)Abstract:

PURPOSE: To simply perform a final fine adjustment of amount of ink to be supplied in individual presses while comparing a printed sheet with a trially printed sheet and enhance printing quality and work efficiency by providing an ink supply amount regulating means at a sheet delivery part in each of sheet-fed type presses which are controlled by group management.

CONSTITUTION: A sheet-fed type press comprises a sheet feeding part 2 for feeding sheets 1 in a stream-like manner, printing units 4 for printing the sheets 1 with ink supplied from ink devices 3 and for pressurizing the printed sheets, and a sheet delivery part 7 for piling the printed sheets 5 on a couching tray 6. A plurality of such sheet-fed type presses are installed in a printing factory, and general control of the presses is exercised unitarily by a group management system. However, since an amount of ink to be supplied is not sufficiently controlled by means of rough adjustment only with the aid of a computer for group management, a means 9 for regulating an ink supply amount for each ink zone is set on a casing 11 in which a printed sheet delivering means 10 such as a chain gripper for the sheet delivery part 7 is stored. In this way, a trially printed sheet is taken out at the sheet delivery part is spread on the easing 11 and, while minutely observing a printed condition, fine adjustment can be finally made for each of many ink zones.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] What is characterized by forming an ink amount-of-supply adjustment means (9) in a delivery unit (7) in a single-wafer-processing printing machine by which group control is carried out.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the control of a single-wafer-processing printing machine by which group control is carried out.

[0002]

[Background of the Invention] If it is in a single-wafer-processing printing machine, the management item of a large number, such as adjustment of the device corresponding to the aim of a form, a printing pressure, and ****, dampening water, and the ink amount of supply, is controlled appropriately, begins, and good printing is performed. If it was in the former, to be shown in JP,60-38741,U and JP,63-230342,A, the operation stand was respectively attached to each printing machine, and the above-mentioned management item was controlled individually. However, if it resulted in recently, based on the request of development computer control technology's, and an operator's derating, the so-called group control method which carries out generalization control of many printing machines unitary by one computer came to be taken.

[0003] While the group control of such a printing machine contributes to an operator's above mentioned derating greatly, since an operation stand becomes unnecessary, there is a big effect also in reduction of a factory space.

[0004] By the way, about adjustment of the ink amount of supply, printing quality is influenced directly most greatly, and since the ink amount of supply is divided into many ink bands and it is set up, there is a request of wanting to perform it, comparing final fine adjustment with the trial print which began to be printed by each printing machine among the management items of the above-mentioned single-wafer-processing printing machine.

[0005]

[Problem(s) to be Solved by the Invention] This invention is made in view of the above-mentioned problem, the single-wafer-processing printing machine which progressed is offered, and the object is in enabling it to perform final fine adjustment of the ink amount of supply of a single-wafer-processing printing machine by which group control is carried out simple in each printing machine.

[0006]

[Means for Solving the Problem] For this reason, a single-wafer-processing printing machine concerning this invention is characterized by forming an ink amount-of-supply adjustment means (9) in a delivery unit (7).

[0007]

[Function] In each printing machine, final fine adjustment of the ink amount of supply for every ink band can be performed simple, this comparing with the trial print (8) taken out in the delivery unit (7).

[0008]

[Example] Hereafter, with reference to a drawing, it explains to details per example of this invention. It is the plan where the outline side elevation and drawing 2 which show one example of the single-wafer-processing printing machine which drawing 1 requires for this invention indicated this plan, and drawing 3 indicated the ink amount-of-supply adjustment means.

[0009] The illustrated single-wafer-processing printing machine is divided roughly, and consists of the feed section (2) which feeds with a form (1) in the shape of a stream, the printing unit (4) which carries out printing application of pressure of the ink sent out from ink equipment (3) at a form (1), and the delivery unit (7) which carries out the pile of the form [finishing / printing] (5) on ***** (6).

[0010] This invention is premised on being arranged at a base printing factory and generalization control being carried out unitary by the group control method by many such single-wafer-processing printing machines. That is, the single-wafer-processing printing machine of an a large number base is not individually controlled by the operation stand like the former, but many management items mentioned above are intensively controlled by one computer.

[0011] However, just adjusting roughly so to speak is inadequate, and it is necessary to make final fine adjustment correspond with a trial print (8), and to perform it for every ink band of divided a large number, by computer for group control about adjustment of the ink amount of supply among many management items.

[0012] Then, the single-wafer-processing printing machine concerning this invention has formed the ink amount-of-supply adjustment means (9) for every ink band in the delivery unit (7). Since casing (11) for storing form conveyance means (10), such as a chain gripper, from the first exists in a delivery unit (7), it is convenient if you lay an ink amount-of-supply adjustment means (9) here. Moreover, since it is natural, it can extend and print this trial print (8) on casing (11) that a trial print (8) is taken out in a delivery unit (7), and it can observe a riser in details.

[0013] The structure of an ink amount-of-supply adjustment means (9) itself is the same as that of the thing of the above mentioned conventional technology, and since the ink blade (12) of ink equipment (3) adjusts the ink amount of supply for every ink band of divided a large number, while making it **** the ink amount of supply by the push button (13) and (14) according to it, the display (15) of the amount of supply is performed. In addition, it cannot be overemphasized that the ink equipment (3) which has an ink amount-of-supply adjustment means (9) and blade driving means, such as a computer for group control (not shown) and a stepping motor, is connected electrically.

[0014]

[Effect of the Invention] Comparing with the trial print (8) taken out in the delivery unit (7) according to the single-wafer-processing printing machine concerning this invention, since final fine adjustment of the ink amount of supply for every ink band can be performed simple in each printing machine, a remarkable improvement of much more improvement in printing quality and working efficiency can be brought about.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL FIELD

[Industrial Application] This invention relates to the control of a single-wafer-processing printing machine by which group control is carried out.

[0002]

[Background of the Invention] If it is in a single-wafer-processing printing machine, the management item of a large number, such as adjustment of the device corresponding to the aim of a form, a printing pressure, and ****, dampening water, and the ink amount of supply, is controlled appropriately, begins, and good printing is performed. If it was in the former, to be shown in JP,60-38741,U and JP,63-230342,A, the operation stand was respectively attached to each printing machine, and the above-mentioned management item was controlled individually. However, if it resulted in recently, based on the request of development computer control technology's, and an operator's derating, the so-called group control method which carries out generalization control of many printing machines unitary by one computer came to be taken.

[0003] While the group control of such a printing machine contributes to an operator's above mentioned derating greatly, since an operation stand becomes unnecessary, there is a big effect also in reduction of a factory space.

[0004] By the way, about adjustment of the ink amount of supply, printing quality is influenced directly most greatly, and since the ink amount of supply is divided into many ink bands and it is set up, there is a request of wanting to perform it, comparing final fine adjustment with the trial print which began to be printed by each printing machine among the management items of the above-mentioned single-wafer-processing printing machine.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention] Comparing with the trial print (8) taken out in the delivery unit (7) according to the single-wafer-processing printing machine concerning this invention, since final fine adjustment of the ink amount of supply for every ink band can be performed simple in each printing machine, a remarkable improvement of much more improvement in printing quality and working efficiency can be brought about.

[Translation done.]

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] This invention is made in view of the above-mentioned problem, the single-wafer-processing printing machine which progressed is offered, and the object is in enabling it to perform final fine adjustment of the ink amount of supply of a single-wafer-processing printing machine by which group control is carried out simple in each printing machine.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

MEANS

[Means for Solving the Problem] For this reason, a single-wafer-processing printing machine concerning this invention is characterized by forming an ink amount-of-supply adjustment means (9) in a delivery unit (7).

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

OPERATION

[Function] In each printing machine, final fine adjustment of the ink amount of supply for every ink band can be performed simple, this comparing with the trial print (8) taken out in the delivery unit (7).

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.*** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

EXAMPLE

[Example] Hereafter, with reference to a drawing, it explains to details per example of this invention. It is the plan where the outline side elevation and drawing 2 which show one example of the single-wafer-processing printing machine which drawing 1 requires for this invention indicated this plan, and drawing 3 indicated the ink amount-of-supply adjustment means.

[0009] The illustrated single-wafer-processing printing machine is divided roughly, and consists of the feed section (2) which feeds with a form (1) in the shape of a stream, the printing unit (4) which carries out printing application of pressure of the ink sent out from ink equipment (3) at a form (1), and the delivery unit (7) which carries out the pile of the form [finishing / printing] (5) on ***** (6).

[0010] This invention is premised on being arranged at a base printing factory and generalization control being carried out unitary by the group control method by many such single-wafer-processing printing machines. That is, the single-wafer-processing printing machine of an a large number base is not individually controlled by the operation stand like the former, but many management items mentioned above are intensively controlled by one computer.

[0011] However, just adjusting roughly so to speak is inadequate, and it is necessary to make final fine adjustment correspond with a trial print (8), and to perform it for every ink band of divided a large number, by computer for group control about adjustment of the ink amount of supply among many management items.

[0012] Then, the single-wafer-processing printing machine concerning this invention has formed the ink amount-of-supply adjustment means (9) for every ink band in the delivery unit (7). Since casing (11) for storing form conveyance means (10), such as a chain gripper, from the first exists in a delivery unit (7), it is convenient if you lay an ink amount-of-supply adjustment means (9) here. Moreover, since it is natural, it can extend and print this trial print (8) on casing (11) that a trial print (8) is taken out in a delivery unit (7), and it can observe a riser in details.

[0013] The structure of an ink amount-of-supply adjustment means (9) itself is the same as that of the thing of the above mentioned conventional technology, and since the ink blade (12) of ink equipment (3) adjusts the ink amount of supply for every ink band of divided a large number, while making it **** the ink amount of supply by the push button (13) and (14) according to it, the display (15) of the amount of supply is performed. In addition, it cannot be overemphasized that the ink equipment (3) which has an ink amount-of-supply adjustment means (9) and blade driving means, such as a computer for group control (not shown) and a stepping motor, is connected electrically.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the outline side elevation showing one example of the single-wafer-processing printing machine concerning this invention.

[Drawing 2] It is this plan.

[Drawing 3] It is the plan which indicated the ink amount-of-supply adjustment means.

[Description of Notations]

3 Ink Equipment

4 Printing Unit

7 Delivery Unit

8 Trial Print

9 Ink Amount-of-Supply Adjustment Means

11 Casing

12 Ink Blade

13 Push Button

14 Push Button

15 Display

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

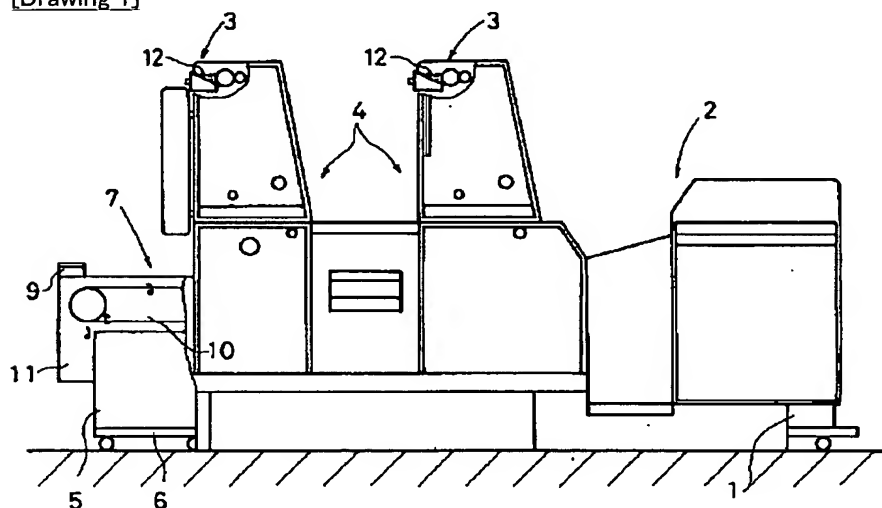
1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.*** shows the word which can not be translated.

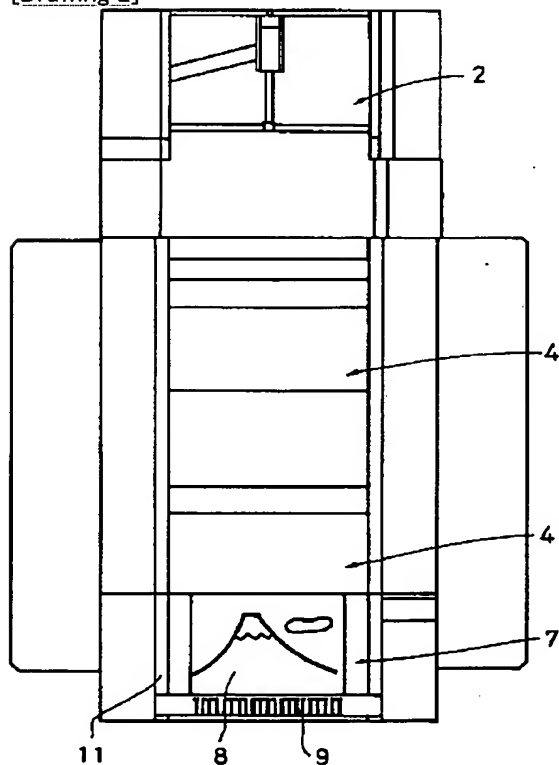
3.In the drawings, any words are not translated.

DRAWINGS

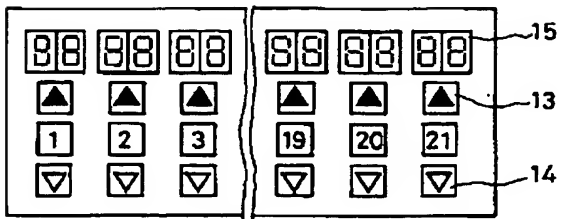
[Drawing 1]



[Drawing 2]



[Drawing 3]



9

[Translation done.]